

DOCKER REPOSITORY CHALLENGE



PREREQUISITE: MUST HAVE DOCKER INSTALLED ([HTTPS://DOCS.DOCKER.COM/GET-DOCKER/](https://docs.docker.com/get-docker/))

Step 1 - LOGIN TO YOUR ENVIRONMENT

Login to the SaaS URL with the JFrog Platform credentials provided to you by email.

STEP 2 - ADD LOCAL DOCKER REPOSITORY

Add a local docker repository that will be used to store your custom docker image you will create in a later step.

Navigate to the Administration Module. Expand the Repositories menu and click on the Repositories menu item.

Add a new **Local** Repository with the **Docker** package type. Enter the Repository Key "**docker-dev-local**" and keep the rest of the default settings.

STEP 3 - ADD REMOTE DOCKER REPOSITORY

Add a remote repository that will be used to store needed 3rd party images from Docker Hub.

Click on the Remote tab on the Repositories page and add a new **Remote** Repository with the **Docker** package type. Enter the Repository Key "**docker-hub-remote**" and keep the rest of the default settings.

Step 4 - ADD VIRTUAL DOCKER REPOSITORY

Add a virtual docker repository that you will use when creating your custom docker image.

Click on the Virtual tab on the Repositories page and add a new **Virtual** Repository with the **Docker** package type. Enter the Repository Key "**docker**" and add the local and remote docker repositories you created in Steps 2 and 3. Select your local repository that you created in Step 2 as the Default Deployment Repository. Keep the rest of the default settings.

Step 5 - FORK THE JFROG DOCKER EXAMPLE GITHUB REPO

Fork the JFrog Docker example repo: <https://github.com/jfrog/jfrog-docker-repo-simple-example>
This repo contains a simple Dockerfile you will use to build your custom image.

Step 6 - UPDATE THE BASE IMAGE REFERENCE

Clone your forked repository and update the FROM line of the Dockerfile to reference your virtual docker repository.

```
FROM ${SERVER_NAME}.jfrog.io/${VIRTUAL_REPO_NAME}/alpine:3.11.5
```

The SERVER_NAME is the first part of the URL given to you for your environment: https://-SERVER_NAME.jfrog.io

The VIRTUAL_REPO_NAME is the name "**docker**" that you assigned to your virtual repository in Step 4.

Step 7 - PUSH CUSTOM IMAGE TO YOUR DOCKER REPOSITORY

Log in to your virtual repository, build, tag and push your custom image with the following commands:

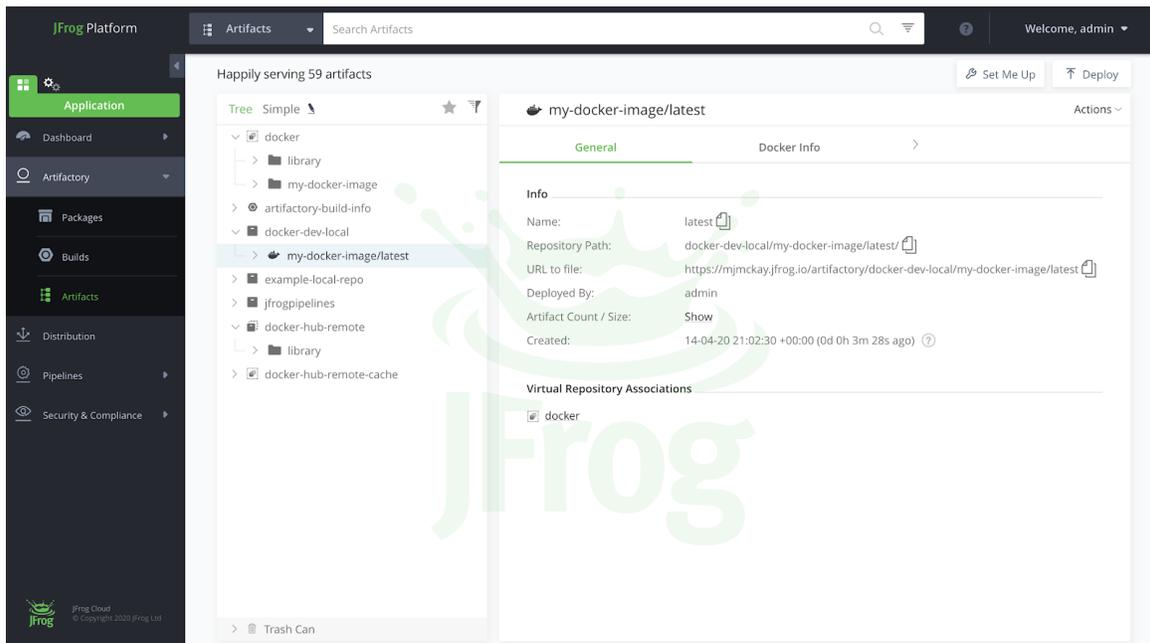
```
$ docker login ${SERVER_NAME}.jfrog.io
```

```
$ docker build --tag ${SERVER_NAME}.jfrog.io/${VIRTUAL_REPO_NAME}/my-docker-image:latest .
```

```
$ docker push ${SERVER_NAME}.jfrog.io/${VIRTUAL_REPO_NAME}/my-docker-image:latest
```

Step 8 - TAKE A SCREENSHOT

Navigate to the Application Module, expand the Artifacts menu and click the Artifacts menu item. In the Artifact Tree View, expand the **docker**, the **docker-dev-local** and the **docker-hub-remote** repositories to show your new artifacts. Click on your image in your docker-dev-local repository to see its details.



Step 9 - SUBMIT YOUR CHALLENGE ENTRY

For the last step, submit your screenshot of the completed challenge to <https://jfrog.co/tshirt-challenge> along with your shipping information!

Questions? Email us directly at tshirt-challenge@jfrog.com

Good luck!

The JFrog Team